## Monitoring Data Record

| Project Title: R-2552B Clayton Bypass COE Action ID: 200220745  Stream Name: Site 5 DWQ Number: 041760  City, County and other Location Information: US 70 Clayton Bypass from I-40 to US 70  Station 82+60 to 85+50 – L-  Date Construction Completed: 4/21/06   |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Monitoring Year: (1) of 5  Ecoregion: 8 digit HUC unit 03020201   |  |  |  |  |  |  |
| USGS Quad Name and Coordinates:   |  |  |  |  |  |  |
| Rosgen Classification:  |  |  |  |  |  |  |
| Rosgen Classification:  Length of Project: 410' Urban or Rural: Rural Watershed Size:   |  |  |  |  |  |  |
| Monitoring DATA collected by: M. Green and J. Young Date: 3/14/07   |  |  |  |  |  |  |
| Applicant Information:  |  |  |  |  |  |  |
| Name: NCDOT Roadside Environmental Unit   |  |  |  |  |  |  |
| Address: 1425 Rock Quarry Road Raleigh, NC 27610  |  |  |  |  |  |  |
| Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us   |  |  |  |  |  |  |
| Consultant Information:   |  |  |  |  |  |  |
| Name:   |  |  |  |  |  |  |
| Address: Email address:   |  |  |  |  |  |  |
| Telephone Number: Email address:  |  |  |  |  |  |  |
| Project Status: Complete  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |
| Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level (1)2 3  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |
|   |  |  |  |  |  |  |
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A total of 8 photos were taken from 4 photo point locations.

Dates reference photos have been taken at this site: 3/14/07

| Other Information relative to s                              | site photo reference:   |
|--|---|
| If required to complete Le                                   | vel 3 monitoring <u>only</u> stop here; otherwise, complete section 2.  |
| Section 2. PLANT SURVIVAL Attach plan sheet indicating refer | ence photos.  |
| Identify specific problem area                               | s (missing, stressed, damaged or dead plantings):   |
|  |   |
|  |   |
| Estimated causes, and propose                                | ed/required remedial action:  |
| Estimated causes, and propose                                | ed/required remedial action:  |
| ADDITIONAL COMMENTS  | Ed/required remedial action:  S: Planting was completed at this stream relocation in March 2007. The less to be planted on the streambank: black willow and silky dogwood live stakes to birch, yellow poplar, and white oak bareroot seedlings. One 50 x 50 foot |

If required to complete Level 1 and Level 2 monitoring <u>only</u> stop here; otherwise, complete section 3.

## Section 3. CHANNEL STABILITY

**Visual Inspection:** The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. <u>Physical measurements of channel stability/morphology will not be required.</u> Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The stream relocation is stabilized except for the second cross vane upstream (Photo Point #4 Upstream) from the box culvert. This cross vane has water piping through the structure which has develop a slight headcut. Remedial action may be needed is this area. NCDOT will continue to monitor this stream relocation.

| 3/14/07       | Station      | Station | Station | Station | Station |
|---------------|--------------|---------|---------|---------|---------|
|               | 83+80-L- LT. | Number  | Number  | Number  | Number  |
| Structure     | Cross vane   |         |         |         |         |
| Type          |              |         |         |         |         |
| Is water      | Water is     |         |         |         |         |
| piping        | piping       |         |         |         |         |
| through or    | through the  |         |         |         |         |
| around        | cross vane   |         |         |         |         |
| structure?    |              |         |         |         |         |
| Head cut or   | Slight       |         |         |         |         |
| down cut      | headcut      |         |         |         |         |
| present?      |              |         |         |         |         |
| Bank or scour |              |         |         |         |         |
| erosion       |              |         |         |         |         |
| present?      |              |         |         |         |         |
| Other         |              |         |         |         |         |
| problems      |              |         |         |         |         |
| noted?        |              |         |         |         |         |

**NOTE:** Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.

## R-2552B Clayton Bypass



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)



Photo Point #3 (Downstream)

## R-2552B Clayton Bypass



Photo Point #4 (Upstream)



Photo Point #4 (Downstream)